

**ABSTRACT**  
**IMPROVEMENTS IN OR RELATING TO FLUID FLOW SENSORS &**  
**LEAK DETECTION SYSTEMS**

Described herein is a method for determining the presence of a leakage in a fluid system, for example, a domestic plumbing system. The method comprises measuring vibration spectra relating to fluid flow in the system and comparing the measured spectra with reference spectra to determine the presence of a leakage. A simple sensor (12) is attached to a pipe (10) for measuring the vibration and is connected to a processing unit (14) via wired connection (18). The sensor (12) may also be provided with an amplifier/buffer (16) and a battery pack (20). The sensor is used in a leakage detection system which is also described.

(Fig. 1)